



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Antimicrobials Division (7510P)
1200 Pennsylvania Avenue NW
Washington, D.C. 20460

EPA Reg. Number:

74655-34

Date of Issuance:

2/24/14

Term of Issuance:

Conditional

Name of Pesticide Product:

Spectrum XD1878

NOTICE OF PESTICIDE:

- Registration
- Reregistration
(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Hercules Inc., a Wholly Owned Subsidiary of Ashland Inc.
500 Hercules Road
Wilmington, Delaware 19808

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

The application referred to above, submitted under the Federal Insecticide, Fungicide and Rodenticide Act, as amended is acceptable under FIFRA sec. 3(c)(7)(C), provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. Submit a study satisfying Guideline 850.4500 – Green Algae Toxicity Study. This study must be submitted within 9 months from the date of this notice.

A stamped copy of your labeling is enclosed for your records. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling.

Signature of Approving Official:

[Handwritten Signature]
PM Name; Velma Noble,
Product Manager Team 31
Regulatory Management Branch 1
Antimicrobials Division (7510P)

Date:

FEB 24 2014

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SPECTRUM™ XD1878

Microbiocide Agent

FOR USE AS A BACTERICIDE, SLIMICIDE AND ALGICIDE FOR TREATING WATER SYSTEMS IN PULP AND PAPER MILLS AND RECIRCULATING COOLING WATER SYSTEMS

ACTIVE INGREDIENT

Ammonium Carbamate.....	19.50%
OTHER INGREDIENTS.....	80.50%
TOTAL.....	100.00%

DANGER
KEEP OUT OF REACH OF CHILDREN

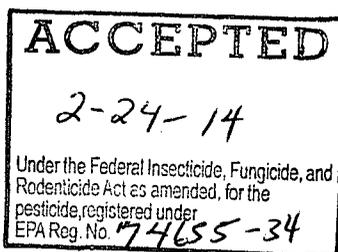
FIRST AID

- **IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.
- **IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- **IF ON SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- **IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

IN CASE OF EMERGENCY CALL 1-800-ASHLAND

Note: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information on product and usage, call 1-800-ASHLAND (1-800-274-5263)

Lot Number: _____
Net Contents: _____



**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

DANGER. Corrosive. Causes irreversible eye damage. Harmful if swallowed. Do not get in eyes or on clothing. Use with adequate ventilation. Wear protective eyewear, (goggles, face shield or safety glasses), protective clothing and protective gloves (rubber, chemical-resistant) when handling. Wash thoroughly with soap and water after handling and before eating drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Use SPECTRUM XD1878 for the control of bacteria, algae and fungi and associated slimes in pulp and paper mill water systems and recirculating cooling water systems, as directed below.

SPECTRUM XD1878 must be used in conjunction with: 1) an EPA registered sodium hypochlorite product (12.5%) to produce chloramine and 2) the SPECTRUM XD1878 feeder/delivery system, which is programmed to automatically and optimally produce a dilute solution of chloramine. The installation, calibration and operation of the SPECTRUM XD1878 feeding system must be conducted only by Ashland authorized and trained personnel.

Once generated, add chloramine to the process waters for which treatment is required. Chloramine may be added to any point that ensures uniform mixing. Addition of chloramine may be continuous or intermittent depending on the severity of the contamination when treatment starts, and on other system operation parameters.

Note: Do not use other feeding modes to mix SPECTRUM XD1878 and sodium hypochlorite or mix SPECTRUM XD1878 with other additives so as to avoid decomposition of chloramine.

Pulp and Paper Mill Water Systems

Dosage Rates

Initial dose: When noticeably fouled, add sufficient chloramine to achieve a measured concentration of 0.5 -10.0 ppm residual biocide, expressed as total chlorine. The dosage can be achieved by mixing 1 liter (33.8 fl. oz.) of Sodium Hypochlorite (12.5%) with 0.7 kg (1.54 lbs) of SPECTRUM XD1878 in the SPECTRUM XD1878 feeder/deliver system.

Subsequent Dose: Once microbial control is evident, add sufficient chloramine to maintain the measured residual biocide concentration at 0.5 -10.0 ppm in process waters, expressed as total chlorine.

Note: (For pulp and paper mill systems). If chloramine is detected in the effluent, it can be neutralized by addition of sodium metabisulfite until the chloramine is no longer detected.

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Recirculating Cooling Water Systems

Use SPECTRUM XD1878 for microbial control in industrial cooling towers, evaporative condensers, heat exchange water towers, and influent systems such as flow through filters and industrial water scrubbing systems.

Dosage Rates

Initial dose: When noticeably fouled, add sufficient chloramine to achieve a measured concentration of 0.3-5.0 ppm residual biocide, expressed as total chlorine. The dosage can be achieved by mixing 1 liter (33.8 fl. oz.) of Sodium Hypochlorite (12.5%) with 0.7 kg (1.54 lbs.) of SPECTRUM XD1878 in the SPECTRUM XD 1878 delivery feeder system.

Subsequent dose: Once microbial control is evident, add sufficient chloramine to maintain the measured residual biocide concentration at 0.3-5.0 ppm in process waters, expressed as total chlorine. Continue as in initial dose.

Note: (For recirculating cooling water systems). Chloramine levels must be monitored. If chloramine is detected, it must be neutralized to levels below 2 ppb for freshwater and 3 ppb for saltwater by the addition of sodium metabisulfite.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

STORAGE

Store in a cool, dry, well-ventilated area, in well-closed original containers, away from energy sources, acids, alkaline materials, oxidizing agents and heavy metal salts.

PESTICIDE DISPOSAL

Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING

Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

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SPILLS

When handling or dealing with spills, use impact-resistant goggles with side shields or face shield; body-covering clothes, including impervious rubber or plastic gloves and boots and respirator. Absorb on sand or vermiculite and place in closed container and dispose as described for pesticide disposal. If containers are contaminated or decomposing, do not reseal; isolate unsealed container in the open or a well-ventilated area; flood with large volumes of water if necessary.

EPA Reg. No. 74655-34

EPA Est. No. 74655-GA-001
74655-WI-001
74655-OR-001

Manufactured for:
Hercules Incorporated,
A wholly owned subsidiary of Ashland Inc.
500 Hercules Rd
Wilmington, DE 19808
(302) 594-5000
Emergency Phone Number
1-800-ASHLAND (1-800-274-5263)

WARRANTY

Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with label directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to Seller, and Buyer assumes the risk of any such use.